JUL 3 2002





WIENER LABORATORIOS S.A.I.C. - Riobamba 2944 - 2000 Rosario - Argentina Phone +54 (341) 432-9191/6 - Fax +54 (341) 432-5454/5555 Internet: http://www.wiener-lab.com.ar

Section 6 - Summary

510(k) Summary

"This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements

of SMDA 1990 and 21CFR 807.92"

"The assigned 510(k) number is: $\frac{\cancel{\text{Ko2}/332}}{\cancel{\text{Mo2}/332}}$ "

Introduction

According to the requirements of 21 CFR 862.1215, the following information provides sufficient details to understand the basis of a determination of substantial equivalence.

6-1 Submitter
Name, Address,
Contact

Wiener Lab Group Riobamba 2944

2000 – Rosario – Argentina Contact person: Viviana Cétola Date Prepared: March 28, 2002.

6-2 Device Name

Proprietary name: WIENER LAB. CK-NAC UV

Common name: Creatine Phosphokinase/Creatine Kinase test

system.

Classification name: NAD Reduction/NADH Oxidation, CPK or

Isoenzymes. Device Class II

6-3 Predicate Device We claim substantial equivalence to the currently marketed DMA CK NAC test system (Cat. Nº 1380-200) and RANDOX

CK NAC-activated kit (Cat. Nº CK522).

6-4 Device Description

The reaction system is as follows:

In the reaction system, NAC works as activator of the Creatine Kinase, recommended by the IFCC.

CK (Creatine Kinase) HK (Hexokinase) G-6-PDH (Glucose-6-phosphate dehydrogenase)

6-5 Intended Use

The WIENER LAB. CK-NAC UV test system is a device intended to measure the activity of the enzyme creatine phosphokinase in plasma and serum with manual methodology and automated clinical chemistry analyzers. Measurements of creatine phosphokinase and its isoenzymes are used in the diagnosis and treatment of myocardial infarction and muscle diseases such as progressive. Duchenne-type muscular dystrophy.

and differences

6-6 Equivalencies The WIENER LAB. CK-NAC UV test system is substantially equivalent to other products in commercial distribution intended for similar use. Most notably it is substantially equivalent to the currently marketed DMA CK NAC test system for the serum application and RANDOX CK NAC-activated system for the plasma application.

> The following table illustrates the similarities and differences between the WIENER LAB. CK-NAC UV test system and the currently marketed DMA CK NAC test system.

	DMA Test System	WIENER LAB. Test System	
Intended use	Quantitative determina- tion of Creatine Kinase in human serum.	Quantitative determina- tion of Creatine Kinase in human serum and heparinized plasma.	
	The reaction system is as follows:		
	Creatine phosphate + ADP Creatine + ATP		
Test principle	ATP + Glucose ADP + Glucose-6-P Glucose-6-P + NADP Gluconate-6-P + NADPH + H*		
	In the reaction system, NAC works as activator of the Creatine Kinase, recommended by the IFCC.		
	CK: Creatine Kinase HK: Hexokinase G-6-PDH: Glucose-6-phosphate dehydrogenase		
Essential Compo- nents	Creatine phosphate – ADP – Glucose – HK – NAD – G-6PDH – NAC	Creatine phosphate – ADP – Glucose – HK – NADP – G-6PDH – NAC	
Reagent Deterio- ration	Reagent must be a white powder Reagent blank > 0.600 O.D. at 340 nm	Reagent blank > 0.800 O.D. at 340 nm	
Working Reagent Stability	Stable 21 days at 2- 10°C	Stable 20 days at 2- 10°C or 3 days at room temperature.	
Sample	Human serum	Human serum and hepa- rinized plasma	
		Continued on next page	

	DMA Test System	WIENER LAB. Test System	
Working Tem- peratures	30°C or 37°C	25°C, 30°C or 37°C	
Wavelength of reading.	340 nm	334 nm - 340 nm - 366 nm	
Linearity	1,500 U/I (30°C) – 2,300 U/I (37°C)	2,000 U/I (37°C)	
Instructions for samples exceed-ing linearity	Dilution in saline and correction of result		
Expected values	7-114 U/I (30°C) 25-160 U/I (37°C)	Male: ≤80 U/I (25°C) ≤130 U/I (30°C) ≤195 U/I (37°C) Female: ≤70 U/I (25°C) ≤110 U/I (30°C) ≤170 U/I (37°C)	
Within-run preci- sion	Normal Serum: CV = 2.7% Abnormal Serum: CV = 3.9%	Normal Serum: CV = 2.33% Abnormal Serum: CV = 1.33%	
Run-to-run preci- sion	Normal Serum: CV = 2.9% Abnormal Serum: CV = 4.2%	Normal Serum: CV = 2.12% Abnormal Serum: CV = 1.53%	
		Continued on next page	

The following table illustrates the similarities and differences between the WIENER LAB. CK-NAC UV test system and the currently marketed RANDOX CK NAC-activated system.

	RANDOX Test System	WIENER LAB. Test System	
Intended use	Quantitative determina- tion of Creatine Kinase in human serum, hepa- rinized or EDTA plasma.	Quantitative determina- tion of Creatine Kinase in human serum and heparinized plasma.	
Test principle	The reaction system is as follows: Creatine phosphate + ADP Creatine + ATP ATP + Glucose ADP + Glucose-6-P Glucose-6-P + NADP Gluconate-6-P + NADPH + H CK: Creatine Kinase HK: Hexokinase G-6-PDH: Glucose-6-phosphate dehydrogenase		
Essential Compo- nents	Creatine phosphate – ADP – Glucose – HK – NADP – G-6PDH – NAC		
Working Reagent Stability	Stable 3 weeks at 2-8°C or 3 days at 15-25°C	Stable 20 days at 2- 10°C or 3 days at room temperature.	
Sample	Human serum, heparin- ized or EDTA plasma	Human serum and hepa- rinized plasma	
		Continued on next page	

	RANDOX Test System	WIENER LAB. Test System	
Working Reagent Stability	Stable 3 weeks at 2-8°C or 3 days at 15-25°C	Stable 20 days at 2- 10°C or 3 days at room temperature.	
Sample	Human serum, heparin- ized or EDTA plasma	Human serum and hepa- rinized plasma	
Working Tem- peratures	25°C, 30°C or 37°C		
Wavelength of reading.	334 nm – 340 nm – 365 nm	334 nm – 340 nm – 366 nm	
Linearity	O.D. 0.25 at 340 nm / 334 nm O.D. 0.14 at 365 nm	2,000 U/I (37°C)	
Instructions for samples exceeding linearity	Dilution in saline and correction of result		
Expected values	Male: 10-80 U/I (25°C) 15-130 U/I (30°C) 24-195 U/I (37°C) Female: 10-70 U/I (25°C) 15-110 U/I (30°C) 24-170 U/I (37°C)	Male:	
Within-run precision	Not stated in insert	Normal Serum: CV = 2.33% Abnormal Serum: CV = 1.33%	
Run-to-run preci- sion	Not stated in insert	Normal Serum: CV = 2.12% Abnormal Serum: CV = 1.53%	

6-7 Conclusion Based on the above mentioned data, we believe that the extended claims continue to support substantial equivalence to other products in commercial distribution intended for similar use



Food and Drug Administration 2098 Gaither Road Rockville MD 20850

JUL 3 2002

Dr. Viviana Cetola QC/QA Manager Weiner Laboratorios S.A. I.C. Riobamba 2944 Rosario, Santa Fe Argentina

Re: k021332

Trade/Device Name: CK-NAC UV Regulation Number: 21 CFR 862.1215

Regulation Name: Creatine phosphokinase/creatine kinase or isoenzymes test system

Regulatory Class: Class II

Product Code: CGS Dated: April 17, 2002 Received: April 26, 2002

Dear Dr. Cetola:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory-Devices

Steven Butman

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

MINIMATE

K 021332

UUT		rageC	
510(k) Number (if known):	arten andres par striker teken t		
Device Name: Wiener lab.	-		•
CK-NAC, U) 🗸	***************************************	
Indications For Use:			
•			sandar vasar a
			APR 25
The "Wiener lab. CK-NAC	CUV" test sys	stem is a devic	e Thten No d to
measure the activity of the and serum with manual meanalyzers. Measurements	enzyme creat ethodology and	ine phosphokir I automated cli	nase in plasma s nical chemistry
isoenzymes are used in t	the diagnosis	and treatment	of myocardial
infarction and muscle dise muscular dystrophy.	eases such as	progressive, [Duchenne-type
Division of Chinical Lan	& Dyl boratory		
510(k) Number	021337	•	
(PLEASE DO NOT WRITE BELOW)	THIS LINE-CONTIN	JE ON ANOTHER PA	GE IF NEEDED)
Concurrence of C	DRH, Office of Der	vice Evaluation (OI	DE)
•			<u>.</u> ;
		•	•
Prescription Use (Per 21 CFR 801.109)	OR	Over-The-Coun	iter Use

(Optional Format 1-2-96)